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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------------|----------------------|---------------------|------------------|
| 10/786,367 | 02/26/2004 | Minoru Nakajima | Q79579 | 3416 |
| 23373 | 7590 05/18/2005 | | EXAM | INER |
| SUGHRUE MION, PLLC 2100 PENNSYLVANIA AVENUE, N.W. | | | LONEY, D | ONALD J |
| SUITE 800 | ILVANIA AVENUE, I | N. W. | ART UNIT | PAPER NUMBER |
| WASHINGTON, DC 20037 | | 1772 | | |

DATE MAILED: 05/18/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | V |
|---|---|--|
| | Application No. | Applicant(s) |
| | 10/786,367 | NAKAJIMA ET AL. |
| Office Action Summary | Examiner | Art Unit |
| | Donald Loney | 1772 |
| The MAILING DATE of this communication Period for Reply | appears on the cover sheet wi | th the correspondence address |
| A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the m - earned patent term adjustment. See 37 CFR 1.704(b). | ON. R 1.136(a). In no event, however, may a r. n. a reply within the statutory minimum of thirt eriod will apply and will expire SIX (6) MON tatute, cause the application to become AB | eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133). |
| Status | | |
| 1) Responsive to communication(s) filed on 1 | 8 February 2005. | |
| 2a) This action is FINAL . 2b) ⊠ | This action is non-final. | |
| 3) Since this application is in condition for allo | owance except for formal matt | ers, prosecution as to the ments is |
| closed in accordance with the practice und | ler <i>Ex parte Quayl</i> e, 1935 C.D | . 11, 453 O.G. 213. |
| Disposition of Claims | | |
| 4) Claim(s) 6,7,9,13-15 and 25-27 is/are pend | ding in the application. | |
| 4a) Of the above claim(s) <u>13-15 and 25-27</u> | is/are withdrawn from conside | eration. |
| 5) Claim(s) is/are allowed. | | |
| 6)⊠ Claim(s) <u>6,7 and 9</u> is/are rejected. | | |
| 7) Claim(s) is/are objected to. | • | |
| 8) Claim(s) are subject to restriction ar | nd/or election requirement. | |
| Application Papers | | |
| 9) The specification is objected to by the Exar | miner. | |
| 10) The drawing(s) filed on is/are: a) | accepted or b)☐ objected to | by the Examiner. |
| Applicant may not request that any objection to | the drawing(s) be held in abeyar | nce. See 37 CFR 1.85(a). |
| Replacement drawing sheet(s) including the co | rrection is required if the drawing | (s) is objected to. See 37 CFR 1.121(d). |
| 11) The oath or declaration is objected to by the | | |
| Priority under 35 U.S.C. § 119 | | |
| 12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents | | 3 119(a)-(d) or (f). |
| 2. Certified copies of the priority docum | | polication No. 10/019 656 |
| 3. Copies of the certified copies of the | • | |
| application from the International Bu | • | Toolived III tills Hational Stage |
| * See the attached detailed Office action for a | | received. |
| | or and doranted dopied flot | |
| Attachment(s) | | |
| 1) Notice of References Cited (PTO-892) | | Summary (PTO-413) |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948 | , | s)/Mail Date |
| Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date <u>02/26/04.05/24/04</u>. | 3/08) 5) | nformal Patent Application (PTO-152) |
| | , — — | |

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DETAILED ACTION

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Election/Restrictions

Applicant's election without traverse of Group I in the reply filed on February 18,
 acknowledged.

Priority

2. The current status of all nonprovisional parent applications referenced should be included. The continuity of this application should be updated in the specification.

Specification

3. The abstract of the disclosure is objected to because it should contain only one paragraph. Correction is required. See MPEP § 608.01(b).

Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 6, 7 and 9 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-4 of U.S. Patent No. 6863956. Although the conflicting claims are not identical, they are not

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patentably distinct from each other because the instant claims are broader than the Patent claims in that they fail to include the pitch of the embossments. This rejection is being made, even though this application is a divisional of the Patent, since these claims were not in the original Patent. They were deleted in a preliminary amendment therein and re-instated in this application.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 7. Claim 6 is rejected under 35 U.S.C. 102(b) as being anticipated by either Lloyd et al (4135023) or Hoagland et al (5455103).

Both references teach a layer that contains concave and convex portions wherein on at least one side the bottom of the concave portions contain a trough-like geometry with a continual bottom (i.e. a flat bottom) and the convex portion containing a plateau forming top surface (i.e. a flat portion). Refer to figure 1 in Lloyd et al showing the flat plateau portion 3, 4 with flat bottom portions in the bottom of the grooves (i.e. the trough like continual bottom portion). Refer to figure 8 in Hoagland et al showing flat bottom concave portions 12, 24 and convex portions 16, 26. While to top portion of the plateau is not show as flat in this figure, at column 5, lines 49-54, alternate forms of embossments are disclosed, such as, rectangle, square and trapezoidal, which would form a flat top section on the convex portion as recited.

Allowable Subject Matter

8. Claims 7 and 9 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and the filing of a timely terminal disclaimer as indicated above.

The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to teach the fine concave and convex portions on the plateau forming top portion of the convex portions. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald Loney whose telephone number is (571) 272-1493. The examiner can normally be reached on Mon, Tues, Thurs and Fri. 8AM-4PM, flex schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon can be reached on 571 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

DJL:D.Loney 05/13/05

Donald Loney **Primary Examiner** Art Unit 1772